

**Date:** 16/02/2019

Qty. | Description

1 CR 20-3 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96500509

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

#### Further product details

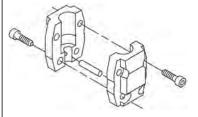
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

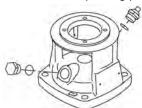
The colour code for the finished product is NCS 9000/RAL 9005.

### **Pump**

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.





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The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

#### Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



#### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

#### **Technical data**

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C



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Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2917 rpm

Rated flow:

Rated head:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

Curve tolerance:

21 m³/h

34.6 m

Vertical

Single

HQQE

CE, EAC,ACS

ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

**ASTM A48-25B** 

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -20 °C

Type of connection: DIN
Size of inlet connection: DN 50
Size of outlet connection: DN 50
Pressure rating for pipe connection: PN 25
Flange rating inlet: 300 lb
Flange size for motor: FT130

Electrical data:

Motor standard: IEC
Motor type: 112MC
IE Efficiency class: IE3
Rated power - P2: 4 kW
Power (P2) required by pump: 4 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D V

Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm Efficiency: IE3 88,1% Motor efficiency at full load: 88.1 % Motor efficiency at 3/4 load: 88.6 % Motor efficiency at 1/2 load: 85.2 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 71 kg
Gross weight: 93 kg
Shipping volume: 0.234 m³
Danish VVS No.: 385905330

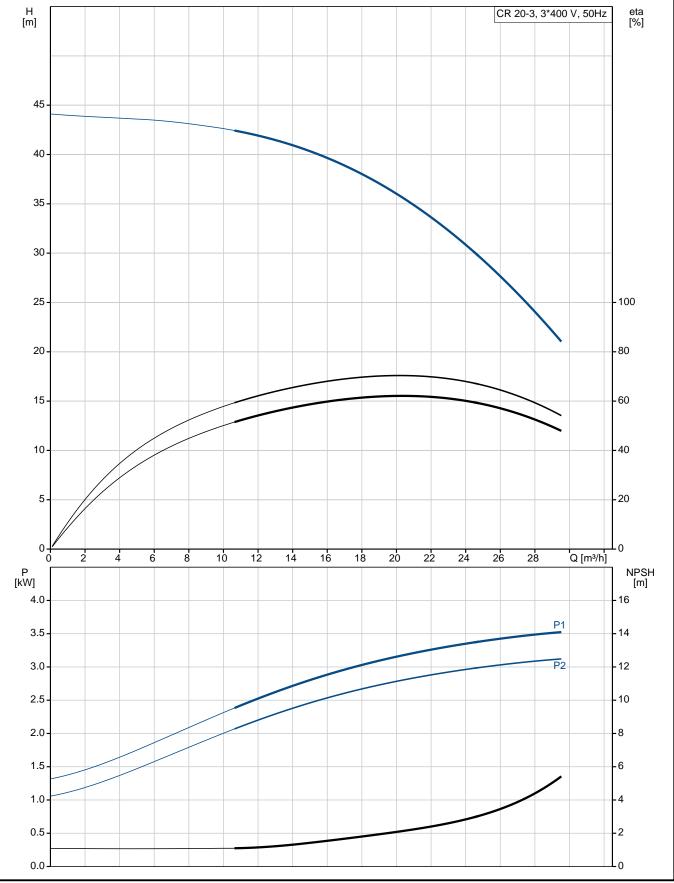


			Date:	16/02/2019	
Qty.	Description				
	Swedish RSK No.:	5823487			



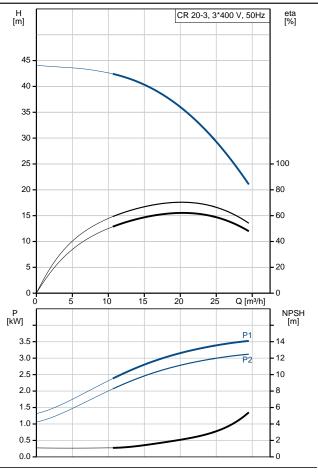
**Date:** 16/02/2019

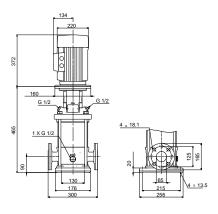
### 96500509 CR 20-3 A-F-A-E-HQQE 50 Hz

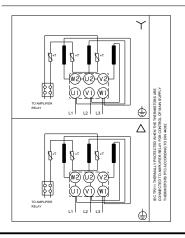




Description	Value
General information:	
Product name:	CR 20-3
	A-F-A-E-HQQE
Product No:	96500509
EAN number:	5700396203249
Technical:	
Pump speed on which pump data are	2917 rpm
based:	·
Rated flow:	21 m³/h
Rated head:	34.6 m
Head max:	43.9 m
Stages:	3
Impellers:	3
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	Α
Code for rubber:	E
Bearing:	SIC
Bearing: Installation:	SIC
	SIC 60 °C
Installation:	
Installation: Maximum ambient temperature:	60 °C
Installation:  Maximum ambient temperature:  Maximum operating pressure:	60 °C 16 bar
Installation:  Maximum ambient temperature:  Maximum operating pressure:	60 °C 16 bar 16 bar / 120 °C
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  Size of inlet connection:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  Size of inlet connection:  Size of outlet connection:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  Size of inlet connection:  Size of outlet connection:  Pressure rating for pipe connection:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  Size of inlet connection:  Size of outlet connection:  Pressure rating for pipe connection:  Flange rating inlet:  Flange size for motor:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F Water -20 120 °C
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F Water -20 120 °C 20 °C
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F Water -20 120 °C 20 °C
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:  Electrical data: Motor standard:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 112MC
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 112MC IE3
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 112MC IE3 4 kW
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 112MC IE3 4 kW 4 kW
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 112MC IE3 4 kW 4 kW 50 Hz
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FT130 F  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 112MC IE3 4 kW 4 kW 50 Hz 3 x 380-415D V







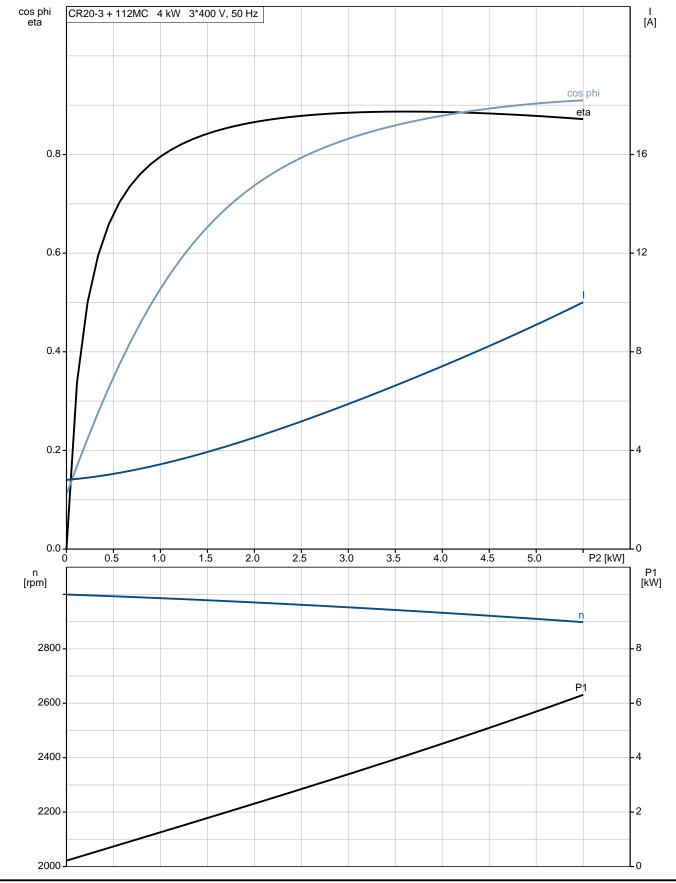


Description	Value
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U15413
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	71 kg
Gross weight:	93 kg
Shipping volume:	0.234 m³
Danish VVS No.:	385905330
Swedish RSK No.:	5823487



**Date:** 16/02/2019

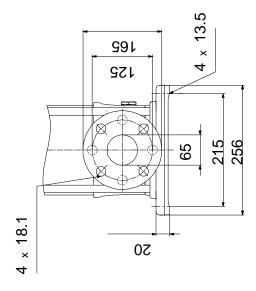
## 96500509 CR 20-3 A-F-A-E-HQQE 50 Hz

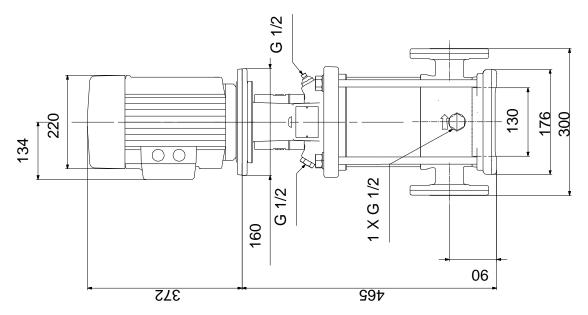




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# 96500509 CR 20-3 A-F-A-E-HQQE 50 Hz





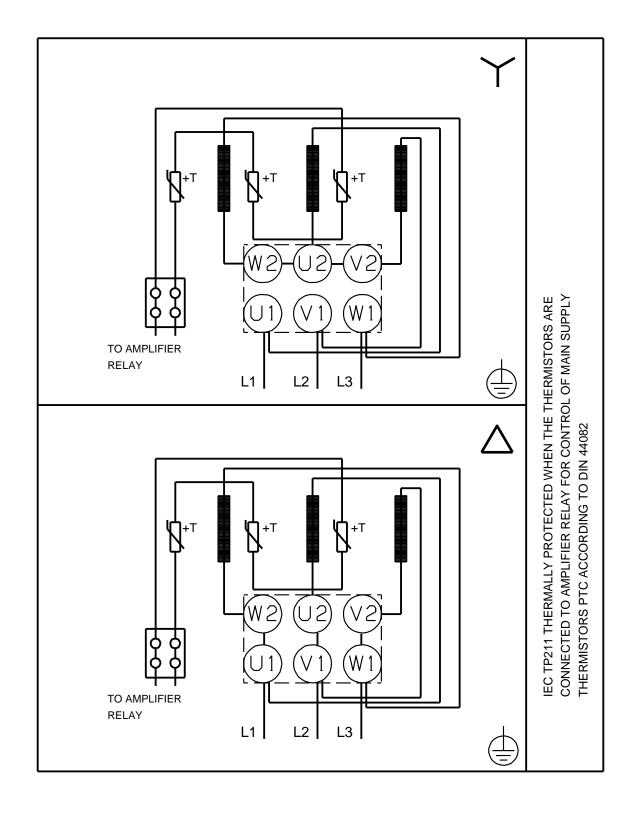
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

16/02/2019

### 96500509 CR 20-3 A-F-A-E-HQQE 50 Hz



Note! All units are in [mm] unless others are stated.

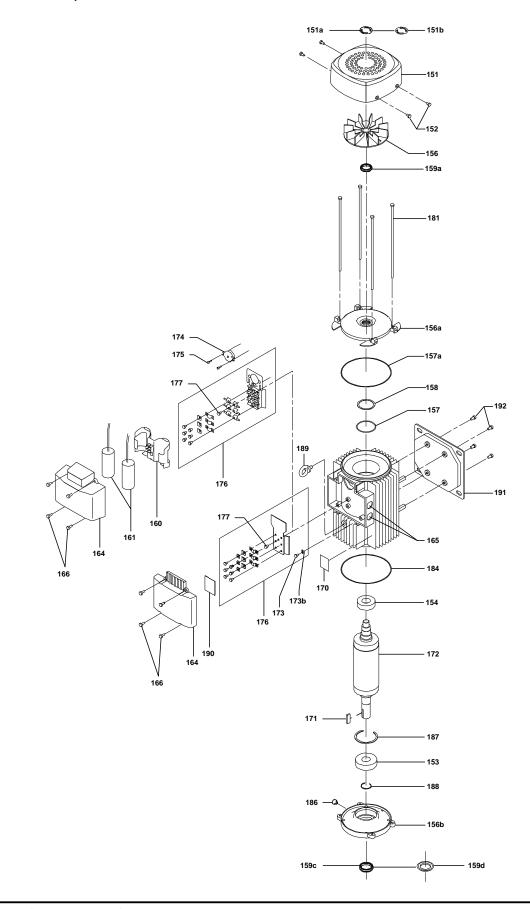


16/02/2019 Date: ( tm069469 for MECR15,20 standard) -44b -26c -26b



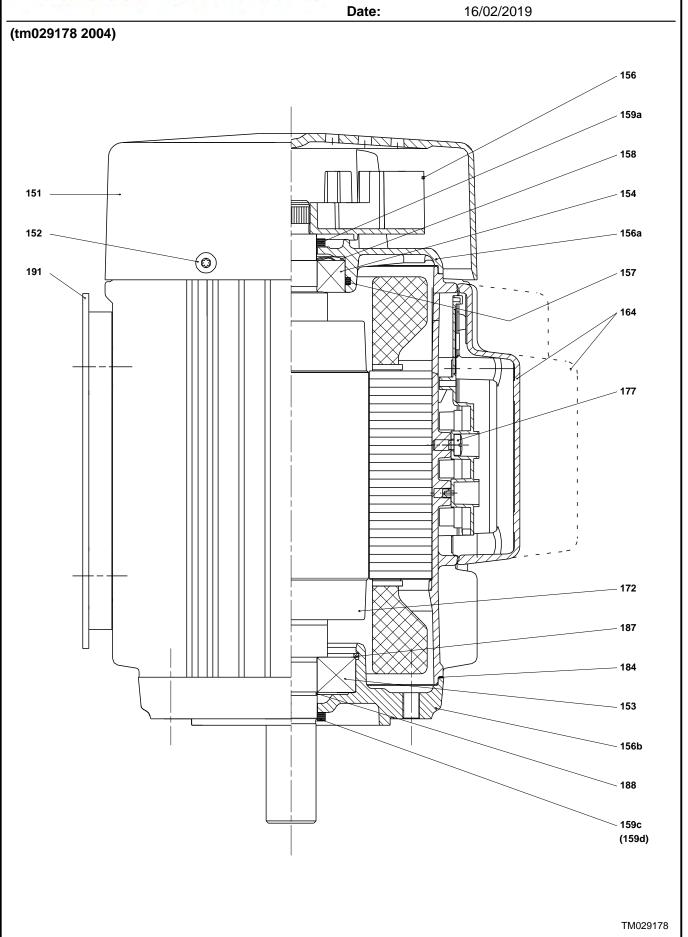
**Date:** 16/02/2019

(tm029184 0505)



TM029184







**Date:** 16/02/2019

### Spare parts CR 20-3, Product No. 96500509 Valid from 1.1.2011 (1152)

Pos		Annotation	Classification Data	Part no.	Qty	
	Kit, chamber stack			96508543	1	pc
80	Chamber stack					1
3	Top intermediate chamber					
	Front plate					
	Spare, turbulence optimizer KP					
	Guide vane					
4a	Intermediate chamber cpl.					
	Bearing plate					
3	Intermediate chamber					
45a	Neck ring cpl.					
47	Bearing bush					
65	Retainer for upper seal ring					
4	Intermediate chamber cpl.					
45a	Neck ring cpl.					
65	Retainer for upper seal ring					
26a	Strap cpl.					
26.			Designation: DIN 125A			
			Thickness: 1,6			
26.	Hex head screw					
44b	Inlet part					
44a						
45a						
65	Retainer for upper seal ring					
47	Bearing ring					
49	Impeller cpl.					
	Impeller blade					
	Impeller plate					
	Impeller plate					
490						
51	Shaft, spline, cpl.					
0.	Bar					
62	Stop ring					
640						
640			Length (mm): 12.7			
648			Internal diameter: 17,5			
046	Spacing pipe		Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6			
66	Wedge lock washer		Lengin (mm). 43.6			
67	Lock nut		Thread: M8			
69	Spacing bush		Tilleau. Wo			
69	· •			06511350		n.
	Kit, coupling			96511350		pc
_	Adjusting fork		Design etien, DIN 040			1
9	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
4.0	O a combinate by M		Thread: M8			_
10a	· •		D:			2
10	Shaft pin		Diameter: 5			1
			Length (mm): 26			
	Kit, coupling guard			96509612	1	pc
7.a	Combi Slot Torx screw					4
7	Coupling guard					2
	Kit, gaskets			96509609	1	pc
	Gasket					2



Pos	Description	Annotation Classification Data	Part no.		Un
24	O-ring				2
37	O-ring				2
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
	-	Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
	C IIIIg	Material type: EPDM			_
		Thickness: 2,4			
00	On via a	THICKHESS. 2,4			4
60	Spring				4
415	Gasket				2
441b	Gasket	Internal diameter: 49		:	2
		Outer diameter: 92			
		Thickness: 2			
	Kit, plug		96511311	1	pc
18	Air vent screw				1
	Spindle				
	Plug				
25a	Drain plug				1
25a 25					1
	Plug	D'			
38a	O-ring	Diameter: 5,3			1
		Material type: FKM			
		Thickness: 2,4			
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
	<u> </u>	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
30	O-IIIIg	Material type: FKM			_
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		:	2
		Material type: EPDM			
		Thickness: 2,4			
	Kit, shaft seal HQQE		96511844	1	pcs
	Emery cloth				1
	Grinding device				1
105	Shaft seal	Matarial type: HOOE			1
105		Material type: HQQE	20544024		
	Kit, wear parts		96511824		pc
4a	Intermediate chamber cpl.				1
	Sand Lifter				
	Guide cup				
	Bearing plate				
	Guide vane				
3	Intermediate chamber				
45a	Neck ring cpl.				
47	Bearing bush				
65	Retainer				
		Designation DIN 4054			_
26.c	Washer	Designation: DIN 125A			2
		Thickness: 1,6			_
26.b	Hex head screw				2
45a	Neck ring cpl.				5
47	Bearing ring				1



Pos	Description Wear ring	Annotation Classification Data Part no. Qu	y. U
49c	Wear ring		6
62	Retaining ring		1
64d	Spacing bush	1 (1 ( ) 40.7	1
64c	Spacing pipe	Length (mm): 12.7	1
64b	Spacing bush	Length (mm): 5.00	1
64a	Spacing pipe	Internal diameter: 17,5	1
		Length (mm): 17	
65	Retainer		5
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
	Motor	85903740 1	р
	Kit, bearing cpl.	96279802	1
111	Ball bearing	Designation: 6206.2Z.C3.SYN	
153	Angular-contact bearing		
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
	Kit, end shield	96279790	1
156a	End shield	55210100	•
150a 157	O-ring	Diameter: 62	
101	O filing	Material type: NBR	
		Thickness: 3	
158	Waved washer	THICKHESS. 3	
159a	Seal ring	00070005	
	Kit, eyebolt	96279825	1
189	Eyebolt		
	Kit, fan	96279758	1
156	Fan		
159c	Seal ring		
159a	Seal ring		
	Kit, fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279779	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
	Kit, shaft seal	96279763	1
159c	Seal ring		
159a	Seal ring		
	Kit, staybolts	96279793	1
181	Pan head staybolt	30213133	•
.01	Kit, terminal board	96279769	1
173a	Base	30279709	'
173a 173		Decignation: COMPLEADY TOE	
173	Pan head thread forming screw Slot cheese head screw	Designation: COMBLTORY T25	
1/0	Siot crieese rieau screw	Designation: COMBI TORX T25	
		Length (mm): 10 Thread: M5	
176	Terminal		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279772	1
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		
-	Pump head	98785091 1	



Po	os	Description	Annotation Classification Data	Part no.	Qty.	Unit
+ 3		Bulk, Top intermediate chamber (3 pcs)		96538971	1	pcs
+ 3		Top intermediate chamber		98371105	1	pcs
- 4a	а	Bulk, Intermediate chamber cpl. (10 pcs)		96538842		pcs
3		Bulk, Intermediate chamber (3 pcs)		965350		•
+ 4a		Intermediate chamber cpl.		98371109		pcs
- 4		Bulk, Intermediate chamber cpl. (10 pcs)		96538817		pcs
65		Bulk, Retainer for upper seal ring (20 pcs)		976995		•
				965879		
65		Retainer for upper seal ring				
+ 4		Intermediate chamber cpl.		98371107		pcs
6		Base			1	pcs
7.		Bulk, Combi Slot Torx screw (1000 pcs)		96886324		pcs
10	0	Bulk, Shaft pin (10 pcs)	Diameter: 5	96536473	1	pcs
			Length (mm): 26			
+ 18	8	Bulk, Air vent screw (5 pcs)		96547461	1	pcs
+ 18	8	Air vent screw		95061351	1	pcs
25	5	Bulk, Plug (10 pcs)		96536013	1	pcs
25	5a	Bulk, Drain plug (10 pcs)		96535881	1	pcs
	6a	Strap cpl.		98952934		pcs
	6.c	Bulk, Washer (4 pcs)	Designation: DIN 125A	99262704	_	pcs
ے	5.0		Thickness: 1.6	30202104	_	Poo
26	6.c	Washer	Designation: DIN 125A	96586880	2	nce
20	u.c	YYASI IGI	Thickness: 1,6	30300000	_	pcs
00	6	Staybalt	THICKHESS. 1,0	98982840	1	noc
26		Staybolt (4 n s)	Lorenth (many), OF			pcs
28	8	Bulk, Hex head screw (4 pcs)	Length (mm): 25	99335941	4	pcs
			Thread: M8			
32	2	Bulk, Washer (100 pcs)	Designation: DIN 125 A	98923051	4	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	6	Bulk, Hex nut (20 pcs)	Thread: M16	96620480	4	pcs
37	7	Bulk, O-ring (20 pcs)		96538857	2	pcs
38	8a	Bulk, O-ring (10 pcs)	Diameter: 5,3	99198791	1	pcs
			Material type: EPDM			
			Thickness: 2,4			
38	8	Bulk, O-ring (10 pcs)	Diameter: 16,3	99198815	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
38	8	Bulk, O-ring (50 pcs)	Diameter: 16,3	99412727	2	pcs
		. , - 3 (1/	Material type: EPDM			
			Thickness: 2,4			
44	4b	Inlet part	11110101000. <u>2</u> , 1	98814595	1	pcs
+ 44		Inlet part cpl.		98818924		pcs
47		Bulk, Bearing ring (10 pcs)		96538795		pcs
						•
- 49		Bulk, Impeller cpl. (5 pcs)		98394308		pcs
	9c	Bulk, Wear ring (10 pcs)		965473		
+ 49		Bulk, Impeller cpl. (10 pcs)		96538799		pcs
+ 49		Impeller cpl.		98394458		pcs
+ 51		Shaft, spline, cpl.		98368607		pcs
55	5	Outer sleeve		98812621	1	pcs
60	0	Bulk, Spring (20 pcs)		96538963	4	pcs
64	4d	Bulk, Spacing bush (20 pcs)		96538947	1	pcs
64	4c	Bulk, Spacing pipe (5 pcs)	Length (mm): 12.7	97980241	1	pcs
	4a	Bulk, Spacing pipe (10 pcs)	Internal diameter: 17,5	98417487	1	pcs
			Length (mm): 17			•
64	4	Bulk, Spacing pipe (20 pcs)	Length (mm): 43.6	96535107	1	pcs
66		Bulk, Wedge lock washer (10 pcs)		96536157		pcs
67		Bulk, Lock nut (10 pcs)	Thread: M8	98277008		pcs
69		Bulk, Spacing bush (20 pcs)	THIOUG. MIC	96538949		•
. ບະ	J	Dain, Opaoning busin (20 pos)		50550949		pcs



Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
76a	Bulk, Rivet (100 pcs)			96620489	1	pcs
105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs